Advanced Python Programming-ELA
Course code:CSI3007

Quiz1

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Python Dictionary Quiz

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Discuss

Question 1

Find the output of the following program:

```python
d = dict()
for x in enumerate(range(2)):
    d[x[0]] = x[1]
    d[x[1]+7] = x[0]
print(d)
```

(A) {0: 1, 7: 0, 1: 1, 8: 0}

(B) {1: 1, 7: 2, 0: 1, 8: 1}

(C) {0: 0, 7: 0, 1: 1, 8: 1}

(D) KeyError

Discuss it

Explanation

enumerate() will return a tuple, the loop will have x = (0, 0), (1, 1). Thus D[0] = 0, D[1] = 1, D[0 + 7] = D[7] = 0 and D[1 + 7] = D[8] = 1.

Note: Dictionary is unordered, so the sequence of the key-value pair may differ in each output.

Question 2

Find the output of the following program:

```python
d = {1 : 1, 2 : '2', '1' : 1, '2' : 3}
d['1'] = 2
print(d[d[d[str(d[1])]]])
```

(A) 2

(B) 3

(C) \'2\'

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Question 2

Find the output of the following program:

```
d = {1 : 1, 2 : '2', '1' : 1, '2' : 3}
d['1'] = 2
print(d[d[d[str(d[1])]]])
```

(A) 2

(B) 3

(C) '2'

(D) KeyError

Discuss it

Explanation

Simple key-value pair is used recursively. D[1] = 1, str(1) = '1'. So, D[str(D[1])] = D['1'] = 2, D[2] = '2' and D['2'] = 3.

Question 3

Find the output of the following program:

```
d = {1 : {'A' : {1 : "A"}, 2 : "B"}, 3 :"C", 'B' : "D", "D": 'E'}
print(d[d[d[1][2]]], end = " ")
print(d[d[1]["A"][2]])
```

(A) C B

(B) E Key Error

(C) B D

(D) D B

Discuss it

Explanation

Question 4

Find the output of the following program:

```
d = dict()
for i in range (3):
    for j in range(2):
        d[i] = j
print(d)
```

(A)   {0: 0, 1: 0, 2: 0}

(B)   {0: 1, 1: 1, 2: 1}

(C)   {0: 0, 1: 0, 2: 0, 0: 1, 1: 1, 2: 1}

(D)   TypeError: Immutable object

Discuss it

Explanation

1st loop will give 3 values to i 0, 1 and 2. In the empty dictionary, valued are added and overwrited in j loop, for eg. D[0]
= [0] becomes D[0] = 1, due to overwriting.

Question 5

Question 5:Find the output of the following program:

```
d = {1 : [1, 2, 3], 2: (4, 6, 8)}
d[1].append(4)
print(d[1], end = " ")
li = [d[2]]
li.append(10)
d[2] = tuple(L)
print(d[2])
```

(A)   [1,2,3,4] ((4, 6, 8), 10)

(B)   [1,2,3,4] (4,6,8, 10)

(C)   [1,2,3,4] TypeError: tuples are immutable

(D)   [1,2,3,4] [4,6,8, 10]

In the first part, key-value indexing is used and 4 is appended into the list. As tuples are immutable, in the second part th e tuple is converted into a list, and value 10 is added finally then converted back to tuple.

INTERVIEW

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Question 6

Explore

What will be the output of the following code?

```
s = "GeeksforGeeks"
print(s[0], s[-1])
```

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- (A) GG

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- (B) Gs

- (C) Gk

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- (D) ek

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Discuss it

Explanation

s[0] accesses the first character 'G' and s[-1] accesses the last character 's'.

Question 7

Find the output of the following program:
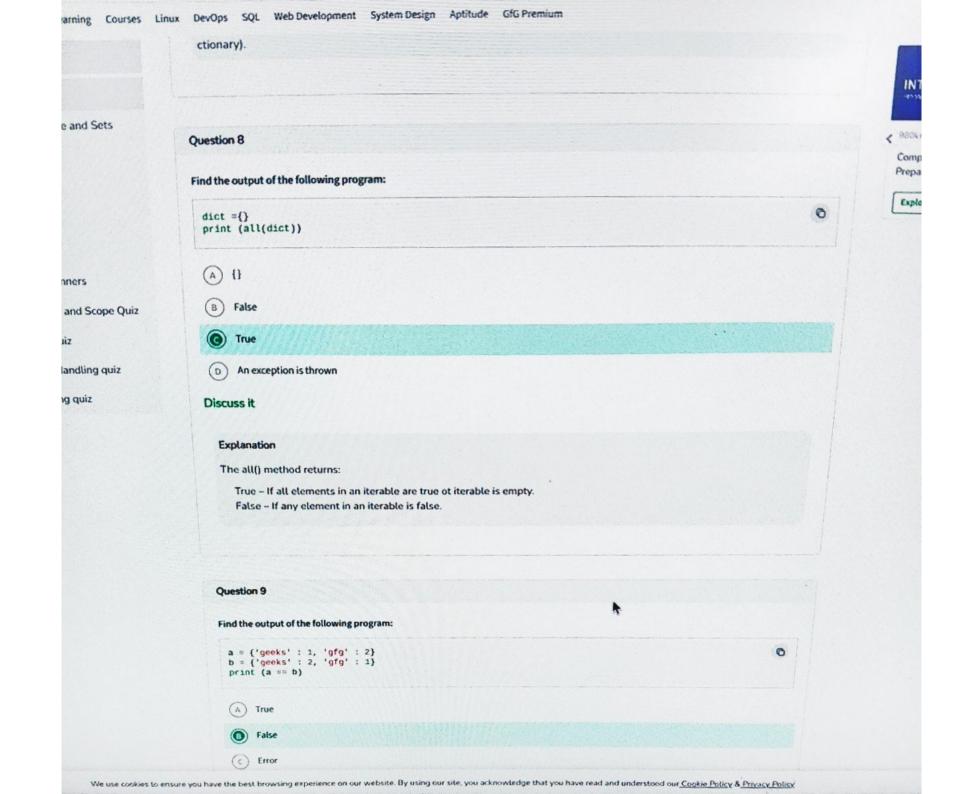
```
a = {}
a.fromkeys(['a', 'b', 'c', 'd'], 98)
print (a)
```

- (A) Syntax error

- (B) {'a':98, 'b':98, 'c':98, 'd':98}

- (C) {'a':None, 'b':None, 'c':None,'d':None}

- (D) {}

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Question 8

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Find the output of the following program:

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```
dict ={}
print (all(dict))
```

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(A) {}

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(B) False

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(C) **True**

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(D) An exception is thrown

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Discuss it

Explanation

The all() method returns:

True – If all elements in an iterable are true ot iterable is empty.
False – If any element in an iterable is false.

Question 9

Find the output of the following program:

```
a = {'geeks' : 1, 'gfg' : 2}
b = {'geeks' : 2, 'gfg' : 1}
print (a == b)
```

(A) True

(B) **False**

(C) Error

(C) Error

(D) None

Discuss it

Explanation

If two dictionary are the same it returns true, otherwise it returns false.

Question 10

Which of the following is FALSE about dictionary?

(A) The values of a dictionary can be accessed using keys

(B) The keys of a dictionary can be accessed using values

(C) Both of the above

(D) None of the above

Discuss it

Explanation

The values of a dictionary can be accessed using keys but the keys of a dictionary can't be accessed using values.

Question 11

Find the output of the following program:

```
d = {'GFG' : 'geeksforgeeks.org',
        'google' : 'google.com',
        'facebook' : 'facebook.com'
     }
del d['google'];
for key, values in d.items():
    print(key, end=" ")
d.clear();
for key, values in d.items():
    print(key)
del d;
```